

SIMON, Eugeniusz

Polyganglioradiculoneuritis in a child vaccinated against Heine-Medin disease. Pat.polska.12 no.4:409-417 '61.

1. Z Zakładu Anatomii Patologicznej AM w Poznaniu Kierownik: prof.  
dr J.Groniowski.

(POLIOMYELITIS immunol) (VACCINATION compl)  
(POLYRADICULITIS etiol)

SINON, Eugeniusz

Primary sarcoma of the brain. Poznan. tow. przyjac. nauk wydz.  
lek. 31:123-159 '65

SIMON, Eugeniusz

Focal myocytolysis of the heart in glomerulonephritis in children.  
Pat. polska 13 no.2:215-222 '62.

1. Z Zakładu Anatomii Patologicznej AM w Poznaniu Kierownik: prof.  
dr J. Groniowski.  
(MYOCARDIUM pathol) (GLOMERULONEPHRITIS pathol)

GABOR, Z.: SIMON, Eva

Contributions to the relativistic study of electron polarization. Studia Univ B-B S. Math-Phys 10 no.1:115-129 '65.

2. 1/2.

Calculation of the average number of revolutions of rotary flinders. In English.

3. 1/2.

Ann. Soc. Sci., Budapest, Vol. 11, no. 1/2, 1955.

3. Monthly list of East European Accessions, (Ann. LC, Vol. 4, no. 1, Oct. 1955, Incl.

SIPO, 1,

SIPO, 1. Calculation of the average revolution per minute of the switching equipment of rotary system. p. 119.

Vol. 16, No. 1/ , 1955.

TECHNICAL.

TECHNOLOGY

Budapest, Hungary

3. : First European Association, Vol. 5, No. 1, May 1956

HUNG

60. Problems of designing relay plate springs — F. Simon, (Magyar Híradástechnika — Vol. 3, 1954, No. 7-8, pp. 114-120, 17 figs.)

The mechanical operation and the design of multi-contact relay plate springs decisively influence (1) the stability of relays, (2) the reliable operation of relay contacts, and (3) the required magnetic pull. All devices for contact operation should be analyzed on this basis. Investigations of single contact springs and the requirements that must be met by double contact springs have led to the causes which necessitated the design of various types. The investigations showed that: (1) a numerical relationship exists between the deformation, the operating force and the contact pressure, (2) an index number could be established which takes into consideration the definable and computable independencies, i.e. the quality of plate springs in respect to double contacts, (3) definable and computable results enable the appraisal of the various operating principles of plate springs, and, in this connection, that of relays used in the rotary system. Finally the principles of the plate spring designs in developing relays can be determined.

SZELESY, László, dr., SINCE, F.(Frau); (Veszprém, Martha Vince u.É.É.)

Gaschromatographic investigation of mineral oil products.  
Acta clinica Hung 31 no.1-3.:223-233. '62.

1. Ungarisches Erdöl- und Erdgasforschungsinstitut.



SIMON, Ferenc

Pyrolysis of the Tuzmazy petroleum. Veszprem vegyip egy kozl  
4 no.48399-400 '60

1. Magyar Asvanyclaj es Foldgaz Kiserleti Intezet, Veszprem.

SIMON, Ferenc

Ventilation problems of schools, kindergartens, and day  
nurseries. *Epuletgepeszet* 8 no.2:62-68 '59.

CSAKANY, Gyorgy, dr.; SIMON, Ferenc

A simple and inexpensive method for the reproduction of roentgenograms. Magy. radiol. 14 no.2:117-120 Mr '62.

1. Az Orszagos Kariologiai Intezet es a Budapesti Orvostudomanyi Egyetem IV sz. Belgyogyaszati Klinikaja (igazgato: Gottsegen Gyorgy dr. egyetemi tanar) Rontgenosztalyanak (foorvos: Csakany Gyorgy dr.) kozlemenye.

(RADIOGRAPHY)

18 7400

also 1454, 1087, 1043

20401

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D234/D305

AUTHORS: Csokán, Pál, and Simon, Ferenc

TITLE: Experiments for the production of a corrosion-resistant titanium coating by electroplating

PERIODICAL: Magyar kémikusok lapja, no. 10, 1960, 442-445

TEXT: The article describes various methods of titanium plating and the tentative titanium plating method devised by the authors. Titanium is especially suitable for the surface protection of chemical industry equipment, steam turbines, jet-powered vehicles, etc., due to its excellent corrosion-proof properties and comparatively low specific gravity. Technical literature, however, provides practically no information on the depositing rate, adhesion, covering ability and purity, so that the problem of titanium plating in shop practice cannot be considered solved. According to experiments with titanium plating from an aqueous solution as described in technical literature, the power consumption efficiency

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with chloride, fluoride, sulfate, tartrate and hydroxide solutions is less than 1 % and the titanium layer obtained in 24 hours of operation contains only a few milligrams of titanium per sq.cm. The low potential in an aqueous solution can be improved by buffer substances, but even such a solution gives only a very thin Ti oxide layer on electrodes with little overvoltage such as Fe, Ni, Cu and Pt, while aluminum cathodes become passive extremely fast due to the aluminum hydroxide produced in addition to  $TiO_2$ . The depositing of titanium by electrolysis from an aqueous solution is dependant upon the chemical composition and temperature of the electrolyte, and the current. Experiments conducted by the authors on titanium plating with Fe, Cu, Zn and Al cathodes in  $K_2TiF_6$  and  $TiSO_4$  solutions confirmed the electrochemical and polarographical investigations published by W. Machu and V. Kámel (Ref. 4: Werkst. u. Korros. 10, 14, 1959) and E.M. Khairy and M.M. El-Khatib (Ref. 4: Egypt. J. Chem. 1, 47. and 65. 1958) and S. Morioka, and A. Umezono (Ref. 5: J. Japan Inst. Metals 20. 403 and 407, 1956) and J.B.

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Cotton (Ref. 5: Chem. a. Ind. (London), 1958, 492) and B. Rivolta (Ref. 5: Met. ital. 50, 255, 1958). By using copper and iron cathodes no metallic titanium was deposited on the cathodes, while when using zinc and aluminum cathodes the deposited titanium layer was of a loose structure and contained oxide and hydroxide in varying quantities. Titanium plating in an organic electrolyte was experimented with by I.S. Sato (Ref. 6: Japan Pat. 9202 ('57), 1957). The titanium layer obtained from absolute ethyl alcohol  $TiF_3$ ,  $TiCl_3$ ,  $TiBr_3$  or  $TiI_3$  solutions with a little toluene was of extremely poor quality and of non-uniform structure. Due to its low efficiency and the difficult handling of organic solvents this method is not suitable for practical purposes. Titanium plating from a salt bath as described by M.E. Sibert and M.A. Steinberg (Ref. 7: Mat. in Design Eng. 46, 132, 1957, and J. Electrochem. Soc. 102, 641, 1955) requires considerable preparation and is expensive due to high power consumption. In view of the impracticability of the above-mentioned methods, the authors experimented

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with a tentative titanium plating method from a salt bath. For the experiment a  $\text{KHSO}_4$  or  $\text{NH}_4\text{HSO}_4$  solution was used in which 10 % dehydrated titanium sulfate was dissolved. Part of the titanium sulfate dissolved in the bath, while the part above the saturation ratio settled as fine mud on the bottom. Since the quantity of the dissolved titanium dropped below the saturation ratio during electrolysis, the loss was continuously replaced from the  $\text{TiSO}_4$  mud on the bottom of the bath. Since, both the  $\text{KHSO}_4$  solution and the  $\text{NH}_4\text{HSO}_4$  solution at temperatures of  $240-280^\circ\text{C}$  and  $250-270^\circ\text{C}$  respectively are liquid, the electrolysis can be carried out with comparative ease. The polarization of the titanium anode used in the early part of the electrolysis caused a rapid drop in current density, but the polarization of platinum or carbon anodes did not affect the electrolysis. Iron, copper, aluminum and zinc plates were used as cathodes. The structure of the layer deposited on the iron and copper cathodes was loose and highly polluted with oxides,

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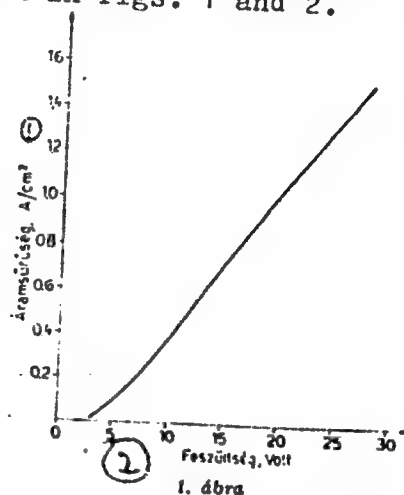
Experiments for the production ...

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while the layer on aluminum and zinc cathodes was of a considerably better quality. The current density increase was proportional to the increase in cell voltage as shown in Figs. 1 and 2.

Fig. 1

Legend: (1) Current density, amp/sq.cm; (2) tension, volt.



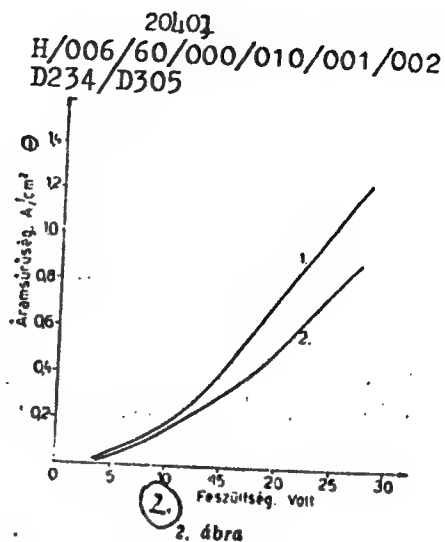
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Experiments for the production ...

Fig. 2

Legend: (1) Current density,  
amp/sq.cm; (2) tension, volt.



Since the  $\text{KHSO}_4$  solution had a better conductivity than the  $\text{NH}_4\text{HSO}_4$  solution, its current density was somewhat higher, although the voltage used was the same in both cases. Graph 1 in Fig. 2

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shows that the steep rise in voltage, determined at the start of electrolysis, became moderate due to the slow polarization of the platinum anode. After 30 minutes of electrolysis, the balance in the anode field was established, as shown by graph 2 in Fig. 2. The gray titanium layer obtained from  $\text{KHSO}_4$  was somewhat uneven and its examination under the microscope revealed dark brown inclusions, presumably from titanium oxide, as shown in Fig. 3. In some places even cracks were observed, the adhesion of the layer was insufficient and, upon rubbing, it peeled in the form of brittle scales. The titanium layer obtained from  $\text{NH}_4\text{HSO}_4$  had a light gray color, good adhesive properties and a definitely metallic appearance. Fig. 4 shows the fine structure of titanium produced with 20 amp/sq.dm. No impurities could be detected with a microscope. In comparison the titanium structure obtained with 40 amp/sq.dm was rather rough and uneven, as shown in Fig. 5.

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Experiments for the production ...

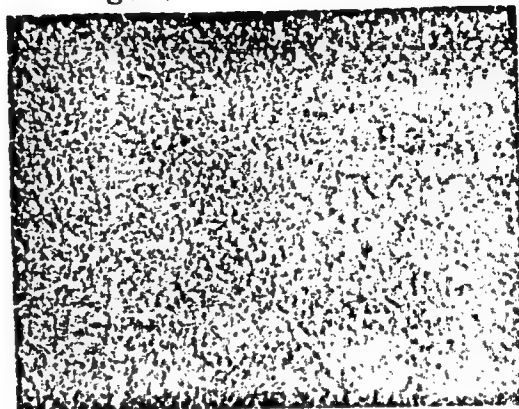
Fig. 3.



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Fig. 4.



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The layer obtained by 120-180 minutes of electroplating was 1-2 $\mu$  thick which indicates a rather unfavorable power consumption efficiency. The layer proved to be resistant to dilute and concentrated acids, but treatment with hydrochloric acid for a longer period of time resulted in corrosion, which indicated that the layer was porous. These experiments revealed that titanium plating from salt bath with a low melting point is possible. The problem of producing a thick non-porous titanium layer with good covering properties, yet without oxide inclusions is, however, not yet solved. There are 5 figures and 21 non-Soviet-bloc references. The re-

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Fig. 5

Experiments for the production ...

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ferences to the English-language publications read as follows:  
Anonym: Light Metals, 21, 243, 1958; J.B. Cotton: Chem. a. Ind.  
(London), 1958, 492; M.E. Sibert and M.A. Steinberg: Mat. in De-  
sign. Eng. 46, 132, 1957; W. Schmidt: US Pat. 2 745 802, 1956.

ASSOCIATION: Fémipari kutató intézet (Metal Industry Research  
Institute).

Card 10/10

SIMON, FERENC

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✓ Corrosion-resistant titanium plating. Pál Csobán and Ferenc Simon (Metal Research Inst., Budapest, Hung.). Magyar Kém. Lapja 15, 442-4 (1960).—A 10%  $Ti_2(SO_4)_3$ -90%  $NH_4HSO_4$  mixt. was melted in a porcelain cell and electrolyzed at 150–200° and an optimum c.d. of 20 amp./sq. cm. Best anodes for the purpose were C or Pt. Both suffered from polarization after 30 min. Ti anodes were not satisfactory owing to their fast polarization. Best cathodes for the process were Al and Zn. Oxide-contaminated, loose-structure Ti coatings were deposited on Fe and Cu cathodes. In 120–180 min. galvanization time the Ti coating was 1–2  $\mu$  thick, which shows a poor current efficiency. The Ti had good adhesion and a metallic appearance. It was resistant to dil. and concd. acids for a short time only; longer exposure revealed pores in the coating. This effect was more pronounced when a c.d. of 40 amp./sq. dm. was used. The same expts. were conducted with 10%  $Ti_2(SO_4)_3$ -90%  $KHSO_4$  melt, but the results were poorer. No inert-gas atm. was used in either set of expts. Peter Marcel Barna

J/081/62/000/005/035/112  
3151/3101

AUTHORS: Vámos, Endre, Simon, Ferenc

TITLE: Ion-exchange analysis of consistent greases

ABSTRACT: Referativnyi Zhurnal. Khimiya, no. 5, 1962, 178, abstract  
52224 (Magyar érványolaj-és földgáz kísérlet. int. közl.  
no. 2, 1962, 159-165)

NOTE: The clumsiness and slowness of standard methods for determining the contents of oils and soaps in consistent greases (CG) has led to the development of a more convenient method, using ion-exchange resins. The CG is dissolved in a mixture of benzene and ethanol (1 : 1) (CG based on lithium stearate dissolved in absolute ethanol) and the solution is passed through a column packed with the cationite. Decomposition of the soap occurs with the binding of the cation. The solution is then passed through an anionite and the fatty acids and neutral oils separated. The ionites are previously activated or regenerated with a 5% solution of HCl or a 5% ethanol solution of NaCl. 1g of the CG is dissolved in 50 ml of the solvent mixture, with boiling. The cooled solution is passed in  
Carl 1/2

VAMOS, Endre; SIMON, Ferenc

Determining petroleum sulfonates by the adsorption chromatography.  
Ropa a uhlie 6 no. 6:185-188 Je '64.

1. Hungarian Research Institute of Petroleum and Natural Gas,  
Veszprem.



HUNGARY

SIMON, Ferenc, Dr., assistant professor; Veterinary Medical University, Department of Pharmacology (chairman: KOVACS, Jeno, Dr, professor, dr of vet. sci.) (Allatorvostudományi Egyetem, Gyógyszertani Tanszék).

"The Local Reaction of Swine to Intraosseous Injection of Compounds."

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 3, Mar 66, pages 122-127.

Abstract: [Author's English summary modified] The local effects of materials injected into the bone marrow were studied. The samples used included physiological solution, hypertonic solutions without a definite tissue-damaging effect and others with a tissue-damaging effect as well as cultures of saprophytic and pathogenic bacteria. The changes developed were studied by clinical methods, myelograms, X-ray pictures as well as by pathological and pathohistological examinations. The following results were obtained: 1) The tolerance of the bone marrow for chemicals is similar to that of the muscle tissue. 2) Hypertonic solutions with a tissue-damaging effect (Ca, Cl, chloralhydrate, etc.) will cause osteonecrosis when injected into the bone marrow. Aseptic changes in bone marrow will be evidenced by prolonged lameness, broken cell forms in marrow preparations and by hypersegmentation of the leukocytes. It takes 20 days for the changes to become visible on X-ray. The dysbasia will improve after the 10th day. 3) Saprophytic micro- and streptococci will cause a temporary fever but they do not alone cause damage to the bone. 4) Purulent osteomyelitis caused by pathogenic germs caused lameness, fever, anorexia, faintness and even death unless treated. No references.

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SIMON, Ferenc

Energy value of our thermal water resources. Épületgépészet 13 no.5:  
161-165 0 '64.

S/081/63/000/002/031/088  
B166/B138

AUTHOR3: Exner, Jaroslav, Šimon, František

TITLE: Surface treatment of metals and their alloys, for example aluminum

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 334, abstract 2K75 (Czechoslovak Patent 100276, July 15, 1961)

TEXT: The suggested method is based on the recrystallization of the metals; exposing the texture by etching, which provides for surface relief (of the order of a few  $\mu$ ) and applying a transparent protective coating. Example. Al-coated sheet (Al purity 99.95%) 2mm thick having a fine crystalline structure imparted by cold rolling is heated at 350°C for 1 hr, it is then cold formed in the critical range (10% reduction) and subjected to new recrystallization anneal at 600°C for 30 min. After degreasing, the sheet is etched in a solution composed of (% by weight): HCl 42, HNO<sub>3</sub> 16, HF 15, H<sub>2</sub>O 27, solution temperature 50-70°C, etching time 5 min. The sheet is then washed, anodized in an H<sub>2</sub>SO<sub>4</sub> solution and painted. [Abstracter's note: Complete translation.]

Card 1/1

NEJEDLY, Miroslav, dr.; SIMON, Frantisek, dr.

Deciding of labor disputes in enterprises. Prace mzda 11  
no.6:291-294 Je '63.

LEFKEL, Károly, dr.; SIMON, Géza, dr.

The effect of sex hormones on hemostasis. Fogorv. szemle 59  
no. 2:33-37 F ' (6.

1. Közlemény a Budapesti Orvostudományi Egyetem Szülészeti  
Klinikájáról (igazgató: Balogh, Károly, dr. egyetemi tanár, az  
orvostudományok doktora).

SIMON, Gyorgy

Debate about the current tasks of economics. Magyar Tud 67 no.5/6:  
353-358 My-Je '60. (EBAI 9:9)  
(Hungary--Economics)

SIMON, Gyorgy, a koegazdasagi tudomanyok kandidatusa (Budapest)

V.S. Nemchinov's lecture on the Results achieved by Soviet economists  
in applying mathematical methods. Magy tud 68 no.7/8:482-484 J1-Ag '61.

1. Tud.munkatars, Magyar Tudomanyos Akademia Kozgazdasagtudomanyi  
Intezete, Budapest.

SIMON, Gyorgy

Widening professional knowledge brings newer, better and more  
job opportunities. Magy kisipar 6 nc.17:4 23 Ag '62.



VEGHMELYI, Peter, dr.,; SZUTRELY, Gyula, dr.,; TOMORY, Emilia, dr.,;  
GATHY, Erzsébet, dr.,; KOCSIS, Magda, dr.,; SIMON, György, dr.,;  
SZÖKE, László, dr.,; TOTH, Magdolna, dr.

Hypothermia and hibernation; XI. Indications, based on own  
experiences. Orv. hetil. 97 no.20:533-543 13 May 56

1. A Budapesti Orvost. Egyetem I. sz. Gyermek. (igaz.: Gagesi Kiss  
Pál dr. egyetemi tanár) közl.

(HIBERNATION, artif.

indic. & contraindic. in various dis. (Hun))

(BODY TEMPERATURE

hypothermia, controlled, indic. & contraindic. in  
various dis. (Hun))

CSILLAG, Anna, dr.; VINCE, Istvan, dr.; SIMON, Gyorgy, dr.

Incidence of Candida albicans in throat secretion of health  
and sick children. Orv. hetil. 98 no.12:298-301 24 Mar 57.

1. Az Oroszágas Kozegesszegugyi Intezet (foigazgato:  
Tako, Jozef, dr.) es a Budapesti Orvostudomanyi Egyetem I.  
sz. Gyermekklinikaanak (igazgato: Gagesi-Kiss, Pal, dr.  
akademikus) kozlemenye.

(THROAT, microbiol.

Monilia albicans, incidence in healthy & sick child.  
(Hun))

(MONILIA ALBICANS

incidence in throat of healthy & sick child. (Hun))

BARTA, Lajos, Dr.; SIMON, Gyorgy, Dr.

Effect of BZ-55 on counter-regulation following insulin administration.  
Orv. hetil. 98 no.44:1205 3 Nov 57.

1. A Budapesti Orvostudományi Egyetem I. sz. Gyermekklinika-jának  
(igazgató: Gegesi Kiss Pál dr. egyet. tanár, akadémikus) közleménye.

(BLOOD SUGAR, eff. of drugs on

insulin, influence of carbutamide on counter-regulation  
following insulin admin. in rabbits (Hun))

(ANTIDIABETICS, eff.

carbutamide on counter-regulation of blood sugar following  
insulin admin. in rabbits (Hun))

(INSULIN, eff.

on blood sugar, influence of carbutamide on counter-regulation  
following insulin admin. in rabbits (Hun))

BARTA, Lajos, Dr.; SIMON, Gyorgy, Dr.

Cortisone and hypoglycemic shock. Orv. hetil. 99 no.24:806 15 June 58.

1. A Budapesti Orvostudományi Egyetem I. sz. Gyermekklinika-jának  
(i.az.gato: Gagesi Kiss Pal egyet. tanar, akadémikus) közleménye.

(HYPOGLYCEMIA, exper.

eff. of cortisone on hypoglycemic shock in rabbits (Hun))

(CORTISONE, eff.

on hypoglycemic shock in rabbits (Hun))

KAMARAS, Janos, Dr.; SIMON, Gyorgy, Dr.

Nervous system complications related to cortisone therapy. *Gyermekegy-  
gyaszat* 10 no.8:237-240 Aug 1959

1. A Budapesti Orvostudományi Egyetem I. sz. Gyermekklinika-jának  
(Igazgató: Dr. Gegesi Kiss Pál akadémikus, egyetemi tanár) közleménye.  
(CORTISONE, eff. inj)  
(NERVOUS SYSTEM, dis)

FOLDVARI, I. Peter, dr.; SIMON, Gyorgy; GYORGYI, Sandor

Effect of novocaine on capillary permeability in the skin. Orv.  
hetil. 101 no.45:1591-1593 6 N '60.

1. Budapesti Orvostudományi Egyetem, Korelettani Intézet és Orvos  
Fizikai Intézet.

(PROCAINE pharmacol)

(CAPILLARY PERMEABILITY pharmacol)

(SKIN blood supply)

PALKOVITS, Miklos, dr.; FOLDVARI, I. Peter, dr.; SIMON, Gyorgy; SAJGONE  
VULKAN, Klara

A new neuro-endocrine regulatory center in water-electrolyte  
balance: the organon subcommisurale-adrenocortical system. Orv.  
hetil. 101 no. 51:1825-1826 18 D'60.

1. Budapesti Orvostudományi Egyetem Anatómiai Intézete, Korelettani  
Intézete és Országos Kozegészségügyi Intézet.  
(ADRENAL CORTEX physiol)  
(PINEAL BODY physiol)  
(WATER ELECTROLYTE BALANCE)

ROMHANYI, Jozsef, dr.; SIMON, Gyorgy, dr.; BANKI, Gyorgy, dr.

A case of strongyloidosis causing leukemoid reaction. *Gyermekgyógyászat*  
12 no.11:328-330 N '61.

1. A Budapesti Orvostudományi Egyetem I sz. Gyermeklinikája (Igazgató:  
Gegesi Kiss Pál dr. egyetemi tanár, akadémikus) és az Országos Kóro-  
kegyszegügyi Intézet (Igazgató: Bakats Tibor dr.) Parazitológiai  
Osztályának közleménye (Parazitológiai osztályvezető: Zoltai Nándor dr.)

(STRONGYLOIDIASIS blood) (LEUKEMIA)



KAMARAS, Janos, dr.; PATAKI, Lenke, dr.; SIMON, Gyorgy, dr.; CSERE,  
Margit, dr.

Dye dilution curves and their use in the study of blood circulation.  
Orv.hetil. 102 no.8:343-345 19 F'61.

1. Budapesti Orvostudományi Egyetem, I. Gyermekklinika.  
(BLOOD CIRCULATION)

VEGHELYI, Peter, dr.; WOHLMUTH, Gertrud, dr.; SIMON, Gyorgy, dr.

Artificial hibernation; 10-year survey. Orv. hetil. 102 no.42:1969-1976  
15 0 '61.

1. Budapesti Orvostudományi Egyetem, I. Gyermekklinika és a Fovárosi  
Tanács Schopf-Merei Agoston Korház Salgotarjani uti Koraszülött Osztálya.

(HIBERNATION ARTIFICIAL)

ZALAY, Magda, dr.; CSALAY, Laszlo, dr.; SIMON, Gyorgy

Studies on antiphlogistic and permeability-inhibiting effects of  
cytostatics in animal experiments. Magyar. onkol. 6 no.2:101-102  
My '62.

1. Orszagos Onkologiai Intezet, Belosztaly es Budapesti Orvostudomanyi  
Egyetem, Korelettani Intezet.

(ANTINEOPLASTIC AGENTS pharmacol) (ALLERGY exper)

FEHER, Imre; DESI, Illes; SIMON, Gyorgy; SZOLD, Endre

Increased permeability and development of cerebral edema following nephrectomy or administration of uremic toxins. Kiserl. orvostud. 14 no.2:132-136 Ap '62.

1. Budapesti Orvostudományi Egyetem Korelettani Intezete es Urologiai Klinika ja.

(UREMIA exper) (EDEMA exper) (BRAIN dis)

KAMARAS, J.; SIMON, Gy.

The time values of oximetric dye dilution curves in 4 to 14 year-old healthy children. Acta paediat. 3 no.3:285-292 '62.

1. I. Kinderklinik (Direktor: Prof. Dr. P. Gegesi Kiss) der Medizinischen  
Universität Budapest.  
(OXYMETRY) (DYE DILUTION TECHNIC)

BERTOK, Lorand; KEMENES, Ferenc; SIMON, Gyorgy

Effect of methionine deficiency on antibody formation. Kiserl. orvostud.  
14 no.2:217-222 Ap '62.

1. Allatorvostudományi Főiskola Járóváltani Intézete, Magyar Tudományos  
Akadémia Allategészségügyi Kutató Intézete és Budapesti Orvostudományi  
Egyetem Korelettani Intézete.

(ANTIBODIES) (METHIONINE defic)

SIMON, Gyorgy, SZUCS, Janos; GYETVAI, Gyula; KUCSKEMETI, Valeria

Effect of the administration of phyroxin on the iodine uptake by  
the rat thyroid. Kiserl. orvostud. 14 no.3:324-326 Js '62.

1. A Budapesti Orvostudományi Egyetem Kóreltani Intézete.  
(IODINE metab) (THYROID GLAND pharmacol)  
(PHYROXIN pharmacol)

SIMON, Gy.; SZUCS, J.; NYETVAI, Gy.; KECSEMETI, Valeria

Effect of tyrosine administration on the iodine uptake by the thyroid of the rat. Acta physiol. acad. sci. hung. 21 no.4:335-338 '62.

1. Institute of Pathophysiology, Medical University, Budapest.  
(TYROSINE) (THYROID GLAND) (IODINE ISOTOPES)  
(DIETARY PROTEINS)



FOLDVARI, I.P.; CZEIZEL, E.; SIMON, G.; PALKOVITS, M.; KERTAI, P.

The influence of the subcommissural organ on the resorption of water and electrolytes from the small intestine. Acta physiol. acad. sci. hung. 22 no.1:43-50 '62.

1. Pathophysiological Department of the State Institute of Public Health, Institute of Anatomy, and Institute of Pathophysiology, Medical University, Budapest.

(CEREBRAL VENTRICLES) (INTESTINE, SMALL) (WATER)  
(ELECTROLYTES)

FEHER, I.; DESI, I.; SIMON, Gy.; SZOLD, E.; GYETVAI, Gy.; SZABO, M.; SIPOS, K.

Effect of nephrectomy and of uraemic toxin administration on capillary permeability and cerebral oedema. Acta physiol. acad. sci. hung. 22 no.1:93-97 '62.

1. Institute of Pathophysiology and Department of Urology, Medical University, Budapest.

(EDEMA) (BRAIN DISEASES) (CAPILLARY PERMEABILITY)  
(UREMIA) (TOXINS AND ANTITOXINS) (NEPHRECTOMY)

SIMON, Gy.; HARMOS, Gy.; RAGO, J.; GATI, T.; KEMENY, T.; SOS, J.

The effects of vitamin E in rats kept on a cardiopathogenic diet. Acta med. acad. sci. Hung. 14 no. 4: 357-359 '63.

1. Institute of Pathophysiology (director: prof. J. Sos)  
University Medical School, Budapest.

★

HUNGARIAN

SIMON, Gyorgy, SASVARI, Karoly, GAL, Maria, SZUCS, Janos; Medical University of Budapest, Pathophysiological Institute (Budapesti Orvostudományi Egyetem, Korelettani Intézet).

"The Effect of Vitamin E Administration on the Cholinesterase Activity of the Serum and the Erythrocytes."

Budapest, Kiserletes Orvostudomány, Vol XV, No 4, Aug 1963, pages 355-361.

Abstract: [Authors' Hungarian summary] The effect of large doses of vitamin E, on rats, in the presence of various cholinesterase inhibitors, has been investigated by the authors. It was found that: 1. by prolonged administration of vitamin E, along with TOCP, DFP, Wofatox (methylparathion) or Prostigmin, the cholinesterase inhibitory effect of these compounds is greatly reduced; 2. this reduction of inhibition is apparent in the cholinesterase activity of both the erythrocytes and the serum; 3. in cases of acute Wofatox poisoning, large amounts of vitamin E, taken beforehand, provide partial defense; 4. the alkaline phosphatase activity of heart muscle homogenates of normal rats is increased after the administration of vitamin E. 8 Western, 8 Eastern European references.

1/1

HUNGARY

RIGO, J., SIMON, G., HEGYVARI, C., and SOS, J., of the Institute of Pathophysiology, Medical University, Budapest [Original version not given].

"Effect of Magnesium on the Changes of Myocardial Potassium Content"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Supplement to Vol 22, 1963; p 15.

Abstract [Authors' English summary, modified]: The results indicate that in a medium rich in magnesium the potassium uptake by the heart muscle is increased and the potassium output is decreased.

1/1

SIMON, Gyorgy; SASVARI, Karoly; BOGA, Balint; NYARI, Tibor

Combined effect of cholinesterase inhibitors and vitamin E on  
liver regeneration and cholinesterase activity. Acta morph.  
acad. sci. Hung. 12 no.4:272-275 '64

1. Budapesti Orvostudományi Egyetem Kísérleti Intézete.

POSCH, Elek; SIMON, Gyorgy; PARKANYI, Ferenc.

Absorption of substances labelled with various radioactive isotopes in experimental intestinal obstruction. Kiserl. orvostud. 16 no.2:174-177 Ap'64

1. Budapesti Orvostudományi Egyetem Kísérleti Intézete.

\*

SIMON, Gy; FOLDVARI, P.; CZEIZEL, E.; SZUCS, J.

Effect of the simultaneous administration of gluco-and mineralo-corticoids on the  $\text{Na}^{24}$  absorption capacity of the small intestine. Kiserl. orvostud. 16 no.2:203-205 Ap'64

L. Budapesti orvostudományi Egyetem Korelettani Intezete és Országos Kozegeszsegugyi Intezet Korelettani Osztalya.

✱



1. The purpose of this report is to provide a summary of the results of the research conducted by the author.

2. The research was conducted in the field of the study of the effect of certain conditions on the speed of the reaction.

3. The results of the research are as follows: (a) The reaction rate is affected by the concentration of the reactants.

1. The first part of the document is a list of the names of the persons who were present at the meeting.

2. The second part of the document is a list of the names of the persons who were present at the meeting.

3. The third part of the document is a list of the names of the persons who were present at the meeting.

1. Parasitology, 1971, 1: 1-10. (1971, 1: 1-10).  
G. 1971, 1: 1-10.

Rare cases of myopathies. (1971, 1: 1-10). (1971, 1: 1-10)

1. Parasitology (1971, 1: 1-10). (1971, 1: 1-10).  
Myopathies, 1971, 1: 1-10.

I 15496-66

ACC NR: AT6007465

SOURCE CODE: HU/2505/65/026/00X/0059/0059

AUTHOR: Morava, E.; Simon, G.; Winter, M.

ORG: Institute of Pathophysiology, Medical University of Budapest (Budapesti Orvostudományi Egyetem, Korelettani Intezet)

TITLE: Role of the adrenal cortex in calcium absorption [This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July 1964.]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 59

TOPIC TAGS: gland, endocrinology, corticoid, calcium, sodium, radioisotope, animal physiology

ABSTRACT: The absorption of sodium from the small intestine is known to be greatly enhanced by mineralo- and glyco-corticoids alike. There are no data, however, on the mode of influence of these hormones on calcium absorption in vivo. By the use of Ca<sup>45</sup> according to Kertai and Ludany, calcium absorption from the small intestine has been studied. It was found that the rate of Ca absorption was significantly reduced by previous bilateral adrenalectomy. In the adrenalectomized animals, the Ca resorption was increased by prednisolone administration.

Card 1/2

L 15496-66

ACC NR: AT6007465

Treatment with aldosterone was ineffective in adrenalectomized animals while it diminished the absorption of Ca in the sham-operated animals. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 2/2

SIMON, Gyula

Demonstration of experimental color picture transmission.  
Hir techn 16 no.1:27-30 Ja '65.

1. Chair of Wireless Telecommunication Engineering of  
Budapest Technical University.

SIMON, Gyula

Colorimetric fundamentals of color television. II. Kep hang 8  
no.1:9-12 Ja '62.

1. Budapesti Muszaki Egyetem Vezeteknelkuli Híradastechnika  
Tanszek

SIMM, Gyula

Colorimetric fundamentals of color television. Kep hang 7 no.2:  
33-40 Ap '61.

1. Budapesti Műszaki Egyetem Vezetéknélküli Híradastechnika Tanszék



PREM, Geza, dr.; SIMON, Hedvig, dr.; BARTA, Lajos, dr.

Occult forms of diabetes insipidus. Gyermekgyógyászat 12 no.3:  
77-80 Mr '61.

1. A Budapesti Orvostudományi Egyetem I. sz. Gyermekklinikájának  
(Igazgató: Gegesi Kiss Pál dr. akadémikus, egyetemi tanár)  
közleménye.

(DIABETES INSIPIDUS diag)

LUKACS, V.F.; GORACZ, Gy.; SIMON, Hedvig

Myocardial changes associated with ~~I~~cterus gravis of the newborn.  
Acta paediat. 3 no.3:271-277 '62.

1. First Department of Paediatrics (Director: Prof. P. Gegesi Kiss)  
and Second Institute of Pathology (Director: Prof. L. Haranghy),  
University Medical School, Budapest.  
(HEMOLYSIS) (PHENYLHYDRAZINE) (JAUNDICE, NEONATAL)  
(MYOCARDIUM) (ANOXIA)

LUKACS, V.F.; GORACZ, Gy.; SIMON, Hedvig

Myocardial changes associated with Icterus gravis of the newborn. II. The effect of steroid treatment. Acta paediat. acad. sci. Hung. 4 no.3:419-424 '63

1. First Department of Paediatrics (director: prof. P. Gegesi Kiss) and Second Institute of Pathology (director: prof. L. Haranghy), University Medical School, Budapest.

\*

LUKACS, V. Ferenc, dr.; GORACZ, Gyula, dr.; SIMON, Hedvig, dr.

Contributions to the study of myocardial changes associated with icterus gravis neonatorum II. Gyermekgyógyászat 14 no.12: 364-369 D '63.

1. A Budapesti Orvostudományi Egyetem I sz. Gyermekklinika-jának  
(Igazgató: Gegesi-Kiss Pál dr. akadémikus, egyetemi tanár)  
és a II sz. Kórház Intézet (Igazgató: Haranghy László dr.  
a MTA lev. tagja, egyetemi tanár) közleménye.  
(ERYTHROBLASTOSIS, FETAL) (MYOCARDIUM)  
(HEMOLYSIS) (PHENYLHYDRAZINE)  
(HYDROCORTISONE) (PATHOLOGY)

MEACOS, V.F.; GORACZ, Gy.; SIMON, Hedvig

Myocardial changes associated with icterus gravis of the newborn. Pt. 3. Acta paediat. 6 no.2:191-198 '65.

1. First Department of Paediatrics, University Medical School, Budapest, and Heim Pal Children's Hospital, Budapest. Submitted January 11, 1965.

SIMON, I.

Hungarian Technical Abst.  
Vol. 5 No. 2  
1953

621.39-181.4:621.311.21-181.4

25. The construction of small hydroelectric plants in Hungary - *Hazai kisvízenergia-telepítések* - Simon, I. (Hungarian Power Economy - *Magyar Energetikai Gazdaság* - Vol. V, No. 6, June 1952, pp. 186-190, 4 figs.)

The utilization of all non-calorific sources of power, primarily the energy of water courses, has been rendered necessary in order to lessen the burden imposed upon the coal mines and to broaden the limited bases of energy. Soviet experiences teach that smaller water courses should not be neglected either as regards the national networks. In Hungary the above process is nonessential, however, it is significant from the standpoint of fuel economy. The Soviet Union made tremendous headway in this field in the last decade. The simplification and standardization of plants and equipment were the most important factors. The utilization of unused smaller water mills was very helpful. The Soviet example was adapted in Hungary when in 1951 combined brigades were sent throughout the country for the purpose of determining the technical and economical features of those small water mills which are suitable for being transformed into hydroelectric power plants. I. Simon

GYOMAI, János (Budapest, I. I., Year of 80), SIMON, István (Budapest, XIII.,  
Visegrád utca 145/4)

Preparation of gelatin with low ion content. Magyar kem. lap 20  
no. 2:83-87 F 1965.

SIMON, I.B.

Preparations with hypotensive action of derivatives of thiocyanic acid.  
Vrachebnoe delo 27, 529-35 (columns, not pp.) '47.  
(CA 47 no.21:11537 '53)

1. Exptl. Endocrinol. Inst., Kharkov.



SA  
1/2/91

10

Synthesis of substances with antitumor activity. III  
6 Derivatives of 5-methylthiouracil. I. B. Simon and I. I.  
Kovtunovskaya. *Zhur. Obshchei Khim.* (J. Gen. Chem.)  
21, 760-4 (1951); cf. *Vrachebnoe Delo*, 18, No. 5, 452 (1949).  
To 11 g.  $\text{AcCH}_2\text{CO}_2\text{Et}$  in 140 ml. abs.  $\text{Et}_2\text{O}$  was added  
2.4 g. Na, the mixt. stirred 3 hrs., allowed to stand over-

night, heated with stirring until the Na reacted, the prod-  
uct treated dropwise with 8.5 g.  $\text{PhCH}_2\text{COCl}$  in 30 ml  
 $\text{Et}_2\text{O}$ , the yellow ppt. filtered off, treated with  $\text{H}_2\text{O}$ , acidified  
with  $\text{AcOH}$ , and extd. with  $\text{Et}_2\text{O}$ , yielding, upon washing  
with  $\text{H}_2\text{O}$ , shaking 1 hr. with 200 ml. 1%  $\text{NH}_4\text{OH}$ , washing  
with  $\text{NaHCO}_3$ , and distg., 31% *Et*  $\gamma$ -phenylacetoacetate (I),  
b<sub>p</sub> 153-5°, *Et* butyryl acetate (II), b<sub>p</sub> 91-6°, and *isobutyryl*  
*acetate* (III), b<sub>p</sub> 128-30°, were obtained in 40-25% yields ac-  
cording to Anderson, *et al.* (C.A. 40, 1434). Heating 2 g.  
 $\text{KOH}$ , 2 ml.  $\text{H}_2\text{O}$ , 5 ml.  $\text{EtOH}$ , 1.6 g. thiourea, and 3.2 g.  
 $\text{EtCOCH}_2\text{CO}_2\text{Et}$  0.5 hr. on a steam bath, concn., and treat-  
ment with  $\text{H}_2\text{O}$  and  $\text{AcOH}$  gave 30% 6-ethyl-2-thiouracil, m.  
227° (from  $\text{EtOH}$ ). Similarly, II gave 50% 6-propyl-2-  
thiouracil, m. 217° (from  $\text{H}_2\text{O}$ ), while III with thiourea in  
the presence of  $\text{EtOH-EtOAc}$  gave 53% 6-butyl-2-thiouracil,  
m. 201° (from aq.  $\text{EtOH}$ ). The same procedure with  $\text{Et-}$   
 $\text{CH}_2\text{CO}_2\text{Et}$  gave 30% 6-phenyl-2-thiouracil, m. 261° (from  
aq.  $\text{EtOH}$ ); I gave 6-benzyl-2-thiouracil, m. 221° (from  
 $\text{EtOH}$ ). Letting 2.2 g.  $\text{KOH}$ , 1.5 ml.  $\text{H}_2\text{O}$ , 8.7 g.  $\text{H}_3\text{NC-}$   
 $(\text{SMe})$ : $\text{NH}_3$ : $\text{H}_2\text{O}$ , and 6.2 g.  $\text{AcCH}_2\text{CO}_2\text{Et}$  stand 6 hrs.,  
filtering, and acidifying with  $\text{AcOH}$  gave 32% 5,6-dimethyl-  
2-thiouracil, m. 224-5°, also formed in 60% yield on letting  
2.2 g.  $\text{KOH}$ , 1.5 ml.  $\text{H}_2\text{O}$ , 2.8 g. 6-methyl-2-thiouracil, and  
8.1 g.  $\text{MeI}$  stand overnight. The same 2 procedures  
yielded the following 6-derivs. of 5-methyl-2-thiouracil: 28%  
(procedure I) or 40% (procedure II) *Et*, m. 151° (from  $\text{H}_2\text{O}$ );  
21 or 38%, 6-*Pr*, m. 154-5° (from aq.  $\text{EtOH}$ ); 21 or 21%,  
(method II requires heating to 90°) *Bu*, m. 127° (from  $\text{H}_2\text{O}$ );  
20 or 62%, *Ph*, m. 240°; 32 or 20%  $\text{PhCH}_2$ , m. 190° (from  
aq.  $\text{EtOH}$ ).  
G. M. Kovalev

SIMON, I. B.

USSR/Chemistry - Pharmaceuticals

Apr 51

"Synthesis of Substances With Anti-Thyroidal Action. III. S-Methyl-6-Derivatives of Thiouracil," I. B. Simon, I. I. Kovtunovskaya, Patokhem Div, Ukrainian Inst of Exptl Endocrinol

"Zhur Obshch Khim" Vol XXI, No 4, pp 760-764

Through (1) condensation of appropriate esters of 3-keto acids with iso-thiourea and (2) methylation of 6-derivs of thiouracil with excess of MeI, synthesized S-6-dimethylthiouracil, S-methyl-6-phenylthiouracil, S-methyl-6-ethylthiouracil, S-methyl-6-n-propylthiouracil, S-methyl-6-n-butylthiouracil,

182726

USSR/Chemistry - Pharmaceuticals (Contd)

Apr 51

S-methyl-6-benzylthiouracil, last 4 not described in the lit.

182726

Synthesis of some derivatives of nicotinic acid. I. B. Simon. *Zhur. Obshchei Khim. (J. Gen. Chem.)* 21, 1537-1538 (1951). Heating 10 g. nicotinic acid with 20 ml.  $\text{SOCl}_2$  1 hr. on a steam bath, and distn. of the excess  $\text{SOCl}_2$ , yields crude *nicotinyl chloride*. This (5.3 g.) and 4.2 g. thionurea in 50 ml.  $\text{MePh}$  refluxed 12-14 hrs. and the ppt. taken up in 50 ml.  $\text{EtOH}$  and pptd. with  $\text{Et}_2\text{O}$  gave 58% of 1-(1-pyridyl)-benzyl-2-thiourea-HCl, decomp. 181-5°. Nicotinic acid (1.2 g.) in 5 ml. dry pyridine heated 1 hr., treated with 1 ml.  $\text{SOCl}_2$  on a steam bath, treated with 1 g. 2-aminothiazole in pyridine, and heated 1 hr. longer, gave on distn. 60% of 2-(1-pyridyl)-carbamoylaminothiazole, m. 210-11° (from  $\text{H}_2\text{O}$ ). The crude acid chloride gives a 65% yield. Similarly,  $p\text{-H}_2\text{NC}_6\text{H}_4\text{CO}_2\text{H}$  yields 60-2% *N*-(*p*-carboxyphenyl)nicotinamide, m. 200-2°, while  $p\text{-AcNH}_2\text{C}_6\text{H}_4\text{NH}_2$  gave 50-60% *p*-AcNH $_2\text{C}_6\text{H}_4\text{NHCO}_2\text{C}_5\text{H}_4\text{N}$ , m. 248-50° (from chl.  $\text{EtOH}$ ). G. N. Kowalski

Lib. Inst. Egypt.  
Endocrinology

Synthesis of salts of heterocyclic acids with quaternary ammonium bases. I. Salts of nicotinic acid with ammonium bases. I. B. Simon. *Sbornik Statei Obshchei Khim., Akad. Nauk S.S.S.R.* 1, 672-6 (1953).—Treatment of Na nicotinate with  $\text{AgNO}_3$  gave 90-95% Ag nicotinate, which was treated with quaternary ammonium halides, allowed to stand overnight and filtered; evapn. of the filtrate gave the following salts of nicotinic acid:  $\text{Et}_4\text{N}$ ,  $\text{MeEt}_3\text{N}$ ,  $\text{Me}_2\text{N}$ ,  $\text{PrEt}_2\text{N}$ ,  $\text{HOCH}_2\text{CH}_2\text{NMe}_3$ ,  $\text{HOCH}_2\text{CH}_2\text{NEt}_3$ ,  $\text{N-methylpyridinium}$ ,  $\text{N-ethylpyridinium}$ ,  $\text{N-methyl-2,6-lutidinium}$ ,  $\text{N-methylquinolinium}$ ,  $\text{N-ethylquinolinium}$ , and  $\text{N-propylquinolinium}$ . All the salts were hygroscopic solids or viscous oils. Heating tetraethylammonium nicotinate 6 hrs. to 180-200° followed by distn. in vacuo gave much gas evolution and a distillate boiling up to 130°/10 mm., after which the residue resolidified. The evolved gas, absorbed in HCl soln., yielded  $\text{Et}_4\text{N.HCl}$  on evapn. of the soln. The distillate on redistn. was shown to be Rt nicotinate, b. 105-10°, b. 220°. II. Salts of 2-phenylcinchoninic acid (Atophan) with aliphatic ammonium bases. *Ibid.* 677-8.—Ag atophanate (Ag 2-phenylcinchoninate) treated with quaternary ammonium halides as described in preceding abstr. yielded the following quaternary ammonium salts of the acid:  $\text{Et}_4\text{N}$ , hygroscopic liquid;  $\text{Me}_2\text{N}$ , glassy solid;  $\text{MeEt}_2\text{N}$ , glassy solid;  $\text{PrEt}_2\text{N}$ , yellow transparent mass; choline, viscous mass;  $\text{HOCH}_2\text{CH}_2\text{NMe}_3$ , transparent mass;  $\text{HOCH}_2\text{CH}_2\text{NEt}_3$ , transparent mass;  $\text{HOCH}_2\text{CH}_2\text{NEt}_3$ , slow; crystg. mass. (A. M. Kosolapoff)

SIMON, I. B.

Synthesis of Salts of Heterocyclic acids with Quaternary Ammonium Bases. II  
Salts of 2-Phenylcinchonine Acid (Atophane) with Aliphatic Ammonium Bases.  
page 677. Sbornik statey po obshchey khimii (Collection of Papers on General  
Chemistry), Vol. 1, Moscow-Leningrad, 1953, pages 762-766.

SIMON, I. B.

Test of new antithyroidal compounds with the aid of radioactive iodine. Ya. M. Kalchik, I. B. Simon, and A. S. Eshkova (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 94, 1193-4 (1954).—Tests of antithyroidal activity of various org. compds. were made on healthy humans who were given 10  $\mu$ c. of  $\text{NaI}^{131}$  in  $\text{H}_2\text{O}$ , after which the radioactivity of the thyroid was detd. periodically and the antithyroidal substances were administered 2 hrs. later. The amt. of material necessary to bring about a complete block of accumulation of  $\text{I}^{131}$  in the thyroid for 4-24 hrs. is given below in mg.: thiouracil 200, methylthiouracil 100, 2-mercaptoimidazole 10, 1-methyl-2-mercaptoimidazole 6, 1-phenyl-2-mercaptoimidazole 25, 1-benzyl-2-mercaptoimidazole 25, 4-methyl-2-mercaptoimidazole 100, 4-phenyl-2-mercaptoimidazole 100, 4-phenyl-2-benzylimidazole 50, 2-mercapto-1-(4-methyl-2-thiazolyl)imidazole 25, 2-mercapto-1-(2-thiazolyl)imidazole 25, 2-mercapto-1-(*p*-amoylamino)imidazole 25. G. M. Kosolapoff

SIMON, I. B.

6825. Experimental investigation of the thyrostatic activity of potassium perchlorate. A. S. Breslavskii and I. B. Simon. *Probl. Endokr. Gormoter.*, 1953, 1, 25-32; *Referat. Zh. Biol.*, 1953, Abstr. No. 87452.—The thyrostatic activities of  $KClO_4$  (I) and methylthiouracil (II) were compared. Both were injected into rats (10 mg./100 g.) daily for 36 days. Although having more general thyrostatic activity, I (as judged by the  $^{131}I$  uptake, and by the  $O_2$  consumption), had considerably less action in producing struma (mean wt. of gland in I 25.6 mg., in II 53.9 mg.). The thyrotropic hormone content of the anterior pituitary was greater in those receiving I. Reduction of the dose of I to 3 mg./100 g. did not reduce its biological effectiveness. In view of its low toxicity, simplicity, and cheapness, I should be considered for clinical use in the treatment of thyrotoxicosis. (Russian)

J. E. S. BRADLEY

SIMON, I.B.

Compounds with antithyroid activity. IV. Preparation of some alkylthio derivatives of imidazole with esters of benzoic acid. I. B. Simon and I. I. Kovtunovskaya. Zhur. Obshchei Khim. 25, 1220-8 (1955); cf. C.A. 46, 10108f. Passage of HCl into 8 g.  $H_2NCH_2CH(OEt)_2$  in dry  $Et_2O$  15-20 min., followed by sepn. of the ppt. and treatment with 8 g. KSCN in  $H_2O$  2 hrs. at  $100^\circ$ , followed by evapn. and heating 2 hrs. at  $140^\circ$  gave 80% 2-mercaptoimidazole, m.  $220-8^\circ$ . This heated with appropriate benzoate ester 1 hr. at  $220-30^\circ$  gave  $RSC:N:CH:CH:NH$  (R, m.p., % yield shown): Me,  $142^\circ$ , 40; Et,  $104-5^\circ$ , 45; Pr,  $112-13^\circ$ , 38-9; iso-Pr,  $120^\circ$ , 35; Bu,  $71^\circ$ , 35; iso-Bu,  $85-0^\circ$ , 30; PhCH<sub>2</sub>,  $150^\circ$ , 10. Also in J. Gen. Chem. U.S.S.R. 23, 1173-4 (1955) (Engl. translation). G. M. Kosolapoff

(1)

Ukr. Inst. Exptl. Endocrinol.



VYAZOVSKAYA, R.D., MASTBAUM, I.S., SIMON, I.B. (Khar'kov)

Histochemical method of cholinesterase determination. Arkh.pat.  
18 no.3:114-116 '56 (MIRA 11:10)

1. Iz otdela khimii gormonov (zav. -kandidat khimicheskikh nauk  
I.B. Simon) i otdela gistofiziologii (zav. - prof. B.V. Aleshin)  
Ukrainskogo instituta eksperimental'noy endokrinologii i kafedry  
khirurgicheskikh bolezney Khar'kovskogo meditsinskogo stomatologicheskogo  
instituta.

(CHOLINESTERASE, determ.

in thyroid gland tissue of men & rabbits, new method  
(Rus))

(THYROID GLAND, metab.

cholinesterase, determ. in thyroid gland tissue of man  
& rabbits, new method (Rus))

VYAZOVSKAYA, R.D., MASTBAUM, I.S., SIMON, I.B.

To Professor I.V. Davydovskii, active member of the Academy of  
Medical Sciences of the U.S.S.R. and editor of "Arkhiv patologii."  
Arkh.pat. 20 no.8:81-84 '58 (MIRA 11:9)  
(CHOLINESTERASE)

SIMON, I.B.

Synthesis of hypotensive substances, the derivative of quaternary ammonium bases. Part 4: Quaternary salts of  $\beta$ -phenylisopropyl-dimethylamine. Zhur.ob.khim. 28 no.9:2586-2587 S '58.  
(MIRA 11:11)

1. Ukrainskiy institut eksperimental'noy endokrinologii.  
(Dimethylamine)

MAKSIMOV, S.V., kand.med.nauk; SIMON, I.B., kand.khim.nauk (Khar'kov)

Some drugs with a hypocholesterinemic action. Vrach.delo  
no.2:119-123 F '59. (MIRA 12:6)  
(ARTERIOSCLEROSIS) (CHOLESTEROL) (PHARMACOLOGY)

SIMON, I.B.; VVEDENSKIY, V.P.

Synthesis of some o-bromobenzyldimethylethylammonium salts  
with sympatholytic and hypotensive action. Med. prom. 15 no.7:  
10-14 J1 '61. (MIRA 15:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy  
endokrinologii.

(AMMONIUM SALTS—PHYSIOLOGICAL EFFECT)

ROZOVSKAYA, Ye.S.; SIMON, I.B.; KHOLODENKO, M.M.

Some pharmacological properties of fragments of the polypeptide.  
part of ergot alkaloids. Trudy Ukr.nauch.-issl.inst.eksper.  
endok. 18:336-344 '61. (MIRA 16:1)  
(ERGOT ALKALOIDS)

SIMON, I.B.; KOVTUNOVSKAYA-LEVSHINA, I.I.

Synthesis of substances with antithyroid action, "mercazolil".  
Trudy Ukr.nauch.-issl.inst.eksper.endok. 18:345-349 '61.  
(MIRA 16:1)

1. Iz otdela khimii gormonov Ukrainского instituta eksperiment-  
tal'noy endokrinologii.  
(IMIDAZOLE) (THYROID GLAND)

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1. Method of determination of the content of the substance

Determination of the content of the substance by titration in anhydrous  
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(MIRA 18:3)

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1. Examination of the ... by plantative  
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